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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/580,488	03/27/2007	Takumi Arie	S1459.70115US00	2387	
23428 7590 032902011 WOLF GREENFIELD & SACKS, P.C. 600 ATLANTIC AVENUE			EXAMINER		
			LEIBY, CHRISTOPHER E		
BOSTON, MA	. 02210-2206		ART UNIT	PAPER NUMBER	
			2629		
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			03/30/2011	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)		
10/580.488	ARIE ET AL.		
Examiner	Art Unit		
CHRISTOPHER E. LEIBY	2629		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,

- WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
- after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

 Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any

earned	patent	term a	adjustmer	nt. See 3	37 CFH	1.704(b).

Status

	Trademark Office (Rev. 08-06) Office Action Summa	ry Part of Paper No./Mail Date 20110324
3) Infor	ice of Draftsperson's Patent Drawing Review (PTO-948) prmation Disclosure Statement(s) (PTO/SB/08) per No(s)/Mail Date	Paper No(s)/Mail Date 5) Notice of informat Patent Application 6) Other:
	tice of References Cited (PTO-892)	4) Interview Summary (PTO-413)
12) a)	under 35 U.S.C. § 119] Acknowledgment is made of a claim for foreign priority un b Some *c None of: 1.	n received. n received in Application No nnts have been received in this National Stage e 17.2(a)).
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9) 🗆 10) 🗆	tion Papers The specification is objected to by the Examiner. The drawing(s) filed on is/are: a) ☐ accepted or b) Applicant may not request that any objection to the drawing(s) the Replacement drawing sheet(s) including the correction is required. The oath or declaration is objected to by the Examiner. No	e held in abeyance. See 37 CFR 1.85(a). ad if the drawing(s) is objected to. See 37 CFR 1.121(d).
A	Non Borrer	
4) 🖂 5) 🗆 6) 🖾 7) 🗀	tion of Claims Claim(s) 1-Z s/are pending in the application. 4a) Of the above claim(s) s/are withdrawn from co Claim(s) s/are allowed. Claim(s) s/are objected to. Claim(s) s/are objected to. Claim(s) are subject to restriction and/or election of the subject to restriction are subject to restriction and/or election of the subject to restriction and/or election of the subject to restriction are subject to restriction and/or election of the subject to restrict the subject the subject the subject the subject the subject to restrict the subject the s	
2a)	Responsive to communication(s) filed on <u>08 February 20</u> This action is FINAL. 2b) This action is FINAL. 2b Since this application is in condition for allowance except closed in accordance with the practice under Ex parte Output Provided The Provide	on-final. for formal matters, prosecution as to the merits is

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Detailed Action

1. Claims 1-7 are pending.

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114.
Applicant's submission filed on 2/8/2011 has been entered.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1, 6, and 7 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The claims disclose wherein the predetermined level is static and being defined prior to said vibration being detected. The specification discloses only a single

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limitation about the predetermined level which is that it is used to detect vibrations not smaller than the predetermined level. There is no discloser, support, or insinuation that the predetermined level is static or that the predetermined level is determined before a vibration is detected.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 5, and 6-7 are rejected under 35 U.S.C. 103(a) as being obvious over Aoyanagi (JP Patent 406083296).

Regarding **independent claims 1** and 6, Aoyanagi discloses An information providing apparatus and method comprising: image display means mounted on a mobile object (reference [industrial application] wherein a graphical display device is mounted in a vehicle), presenting an image display of information which assists travel of the mobile object (reference paragraph [0002] wherein graphical device projects navigation image to facilitate the drive);

vibration detecting means for detecting vibration produced on said image display means and sending a detection output signal (paragraph [0017] wherein the video signal displacement, which the vehicle itself vibrating such as the longitudinal acceleration of the vehicle, is subtracted from the vibration detection means so vibrations not smaller than the

video signal displacement is detected) when said vibration is not smaller than said predetermined level, said predetermined level being greater than an absence of vibration (again paragraph [0017] the detected vibrations are not smaller than the video signal displacement level/predetermined level which is bigger than an absence of vibration altogether); and operation control means for:

modifying a display mode of said information presented in the image display by said image display means from a first display mode to a second display mode (paragraphs [0005] and [0008]), when receipt of said detection output signal over a predetermined duration of positive length indicates that the vibration of not smaller than said predetermined level produced on said image display means sustains over the predetermined duration (paragraph [0008] wherein the detection means are over a duration of a first frame not smaller than a first frame and every frame thereafter wherein a second duration would be a second frame and third duration would be a third frame); and

modifying the display mode of said information presented in the image display by said image display means form the second display mode to the first display mode when an absence of output of said detection output signal is detected over a predetermined duration of positive length (as both described by applicant and paragraphs [0006]-[0009] the device detects a vibration via the accelerometer in which x and y counter-displacement values are used in an opposite direction to negate the vibration displacement occurring during normal vehicle operations in which the device is mounted, a vibration is defined as a shaking or oscillation movements meaning that the vibration on the device moves to a peak height of movement and eventually at some point [not necessarily the end point of movement to the original position. Aovanagi's discloses a first display mode

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image display without vibration, without counter-displacement values such as those vibrations detected smaller than the video signal paragraph [0017], and a second display mode image display enabling the counter-displacement of the image when a vibration is detected paragraph [0008], at the end of the oscillation or vibration back to the device's original position this transitions the image display device from the send display mode of vibration correction to the first display mode of normal operation since there are no more vibrations detected at this time).

Aoyanagi does not disclose wherein the predetermined level is static nor that the predetermined level is defined prior to a vibration being detected.

It would have been obvious to one skilled in the art at the time of the invention to enable Aoyanagi's vibration system with a static predetermined level programmed prior to vibration detection allowing the system to be made cheaper and simpler lowering processing needs without the need of an additional sensor with a varying instantaneous level as disclosed by Aoyanagi (paragraph [0017]).

Regarding claim 5, Aoyanagi discloses an information providing apparatus, wherein: said mobile object is a vehicle (paragraph [0001] reference vehicle), and said image display means is configured so as to present image display of a road map image having a current position of said vehicle and an image expressing a travel route superposed therein, as said information (paragraph [0002] reference navigation image).

Regarding **independent claim 7**, Aoyanagi discloses an information providing apparatus comprising:

an image display section mounted on a mobile object, presenting an image display of information which assists travel of the mobile object (reference

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[industrial application] wherein a graphical display device is mounted in a vehicle and reference paragraph [0002] wherein graphical device projects navigation image to facilitate the drive);

a vibration detection section that detects vibration produced on said image display section, and sending a detection output signal (paragraph [0017] wherein the video signal displacement, which the vehicle itself vibrating such as the longitudinal acceleration of the vehicle, is subtracted from the vibration detection means so vibrations not smaller than the video signal displacement is detected) when said vibration is not smaller than said predetermined level, said predetermined level being greater than an absence of vibration (again paragraph [0017] the detected vibrations are not smaller than the video signal displacement level/predetermined level which is bigger than an absence of vibration altogether); and operation control section that:

modifies a display mode of said information presented in the image display by said image display section from a first display mode to a second display mode (paragraphs [0005] and [0008]), when receipt of said detection output signal over a predetermined duration of positive length indicates that the vibration of not smaller than said predetermined level produced on said image display means sustains over the predetermined duration (paragraph [0008] wherein the detection means are over a duration of a first frame not smaller than a first frame and every frame thereafter wherein a second duration would be a second frame and third duration would be a third frame); and

modifying the display mode of said information presented in the image display by said image display section form the second display mode to the first display mode when an absence of output of said detection output signal is

5.

detected over a predetermined duration of positive length (as both described by applicant and paragraphs [0006]-[0009] the device detects a vibration via the accelerometer in which x and y counter-displacement values are used in an opposite direction to negate the vibration displacement occurring during normal vehicle operations in which the device is mounted, a vibration is defined as a shaking or oscillation movements meaning that the vibration on the device moves to a peak height of movement and eventually at some point [not necessarily the end point of movement] to the original position, Aoyanagi's discloses a first display mode image display without vibration, without counter-displacement values such as those vibrations detected smaller than the video signal paragraph [0017], and a second display mode image display enabling the counter-displacement of the image when a vibration is detected paragraph [0008], at the end of the oscillation or vibration back to the device's original position this transitions the image display device from the send display mode of vibration correction to the first display mode of normal operation since there are no more vibrations detected at this time).

Aoyanagi does not disclose wherein the predetermined level is static nor that the predetermined level is defined prior to a vibration being detected.

It would have been obvious to one skilled in the art at the time of the invention to enable Aoyanagi's vibration system with a static predetermined level programmed prior to vibration detection allowing the system to be made cheaper and simpler lowering processing needs without the need of an additional sensor with a varying instantaneous level as disclosed by Aoyanagi (paragraph [0017]).

Claims 2-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aoyanagi as applied to claim 1 above, in view of Chene et al. (EP Patent Application 1207072), herein after referred to as Chene.

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Regarding **claim 2**, Aoyanagi discloses an information providing apparatus, wherein said operation control means takes part in a control of negating vibrations of a display screen on which said information is presented asan in the image display in said image display means, when the detection output signal is received from said vibration detecting means over the predetermined duration (paragraphs 100051 and 10008) refer to rejection of claims 1 and 6).

Aoyanagi does not specifically disclose to increase luminance over the third duration of vibration.

Chene does disclose increasing luminance to further facilitate viewing of a display for a driver in a vibration environment (abstract and paragraph [0009]).

It would have been obvious to one skilled in the art at the time of the invention to combine Aoyanagi's device with Chene increasing luminance over the period since this would indicate a prolonged exposure of vibration to the device and further means to increase the view ability of the screen would be warranted.

Regarding **claim 3**, Aoyanagi discloses an information providing apparatus, wherein said operation control means takes part in a control of negating vibrations of a display screen on which said information is presented asan in the image display in said image display means, when the detection output signal is received from said vibration detecting means sustains over the predetermined duration (*paragraphs* [0005] and [0008] refer to rejection of claims 1 and 6).

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Aoyanagi does not specifically disclose to enlarging images corresponded to mark information and character information contained in said information over the third duration of vibration.

Chene does disclose enlarging images corresponded to mark information and character information contained in said information to further facilitate viewing of a display for a driver in a vibration environment (abstract and paragraph [00010]).

It would have been obvious to one skilled in the art at the time of the invention to combine Aoyanagi's device with Chene enlarging images over the third period since this would indicate a prolonged exposure of vibration to the device and further means to increase the view ability of the screen would be warranted.

Regarding **claim 4**, Aoyanagi discloses an information providing apparatus, wherein said operation control means takes part in a control of negating vibrations of a display screen on which said information is presented asan in the image display in said image display means, when the detection output signal is received from said vibration detecting means sustains over the predetermined duration (*paragraphs [0005] and [0008] refer to rejection of claims 1 and 6*).

Aoyanagi does not specifically disclose to increasing difference in contrast between an image of high importance and an image of low importance contained in said information over the third duration of vibration.

Chene does disclose increasing difference in contrast between an image of high importance and an image of low importance contained in said information to further facilitate viewing of a display for a driver in a vibration environment (abstract reference contrast may be adjusted to provide maximum readability which is a difference in contrast between that of what needs to be read high importance over that which either cannot be read or does not need to be read low importance).

It would have been obvious to one skilled in the art at the time of the invention to combine Aoyanagi's device with Chene enlarging images over the period since this would indicate a prolonged exposure of vibration to the device and further means to increase the view ability of the screen would be warranted.

Response to Arguments

 Applicant's arguments filed 11/4/2010 have been considered and are moot in view of new grounds of rejection. This action is non-final.

Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHRISTOPHER E. LEIBY whose telephone number is (571)270-3142. The examiner can normally be reached on 9 - 5 Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor. Alexander Eisen can be reached on 571-272-7687. The

fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

CL

March 24th, 2011

/Alexander Eisen/

Supervisory Patent Examiner, Art Unit 2629